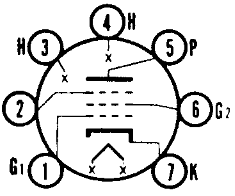


SYLVANIA TYPE 12AC6

Remote Cutoff Pentode



7BK

MECHANICAL DATA

Bulb	T-5½
Base	E7-1, Miniature Button 7-Pin
Outline	5-2
Basing	7BK
Cathode	Coated Unipotential
Mounting Position	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage[1]	12.6 Volts
Heater Current	150 Ma
Heater-Cathode Voltage (Design Center Values)	
Heater Negative with Respect to Cathode	30 Volts Max.
Heater Positive with Respect to Cathode	30 Volts Max.

DIRECT INTERELECTRODE CAPACITANCES

	Shielded[2]	Unshielded
Grid No. 1 to Plate	.004	.005 μμf
Input	4.3	4.3 μμf
Output	5.0	5.0 μμf

RATINGS (Design Center Values)

Plate Voltage	30 Volts Max.
Grid No. 2 Voltage	30 Volts Max.
Cathode Current	20 Ma Max.
Grid No. 1 Circuit Resistance	10 Megohms Max.

CHARACTERISTICS AND TYPICAL OPERATION

Class A_1 Amplifier

Plate Voltage	12.6 Volts
Grid No. 3 Voltage (Connected to Cathode at Socket)	0 Volts
Grid No. 2 Voltage	12.6 Volts
Grid No. 1 Voltage[3]	
Grid No. 1 Resistor	2.2 Megohms
Plate Current	550 μa
Grid No. 2 Current	200 μa
Transconductance[4]	730 μmhos
Plate Resistance (approx.)	0.5 Megohm
Grid No. 1 Voltage for Gm = 10 μmhos (approx.), Ec3 = 0	-5.2 Volts
Grid No. 3 Voltage for Gm = 10 μmhos (approx.), Ec1 = 0	-3.7 Volts

NOTES:

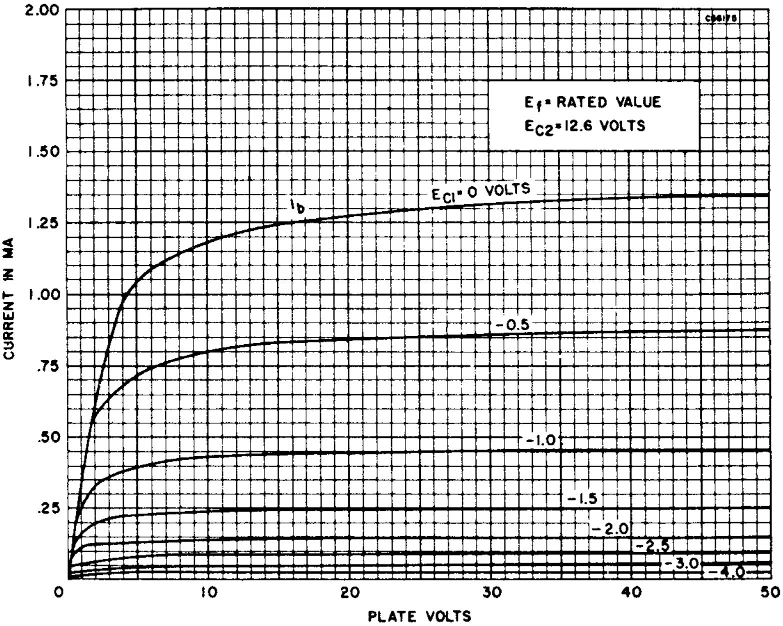
1. This tube is intended for use in automobile radios operated from a nominal 12 volt battery. Design of the tube is such that the heater will operate satisfactorily over the range 10.0 volts to 15.9 volts, and that the maximum ratings provide a safety factor for the wide voltage variation encountered with this type of supply.
2. Shield No. 316.
3. Average contact potential is developed across the specified resistor.
4. Measured from Grid No. 1 to plate.

APPLICATION NOTES

The Sylvania Type 12AC6 is a miniature remote cutoff pentode intended for use as an RF or IF amplifier.
It is designed for operation where the heater, plate and screen voltages are supplied directly from a 12 volt automotive storage battery.

SYLVANIA TYPE 12AC6 (Cont'd)

AVERAGE PLATE CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS

